Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1436	method near boundary	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/21 13:07
L2	119	method near boundary with determin$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/21 12:52
L3	28	method near boundary with determin$5 and link$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/21 13:07
L4	617	(717/162-167).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/21 13:53
L5	1	1 and 4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/21 13:07
L6	25063	method near10 boundary	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/21 13:08
L7	10	4 and 6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/21 13:08
L8	445	determin$5 with basic adj block	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/21 13:51
L9	7	8 and 4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/21 13:51
L10	1199	(717/141-144,162-167).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/21 13:53

L11	30	8 and 10	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/21 13:53

Terms used **method boundary** Found **156,474** of **859,666**

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1 A Boundary Condition Capturing Method for Multiphase Incompressible Flow

Myungjoo Kang, Ronald P. Fedkiw, Xu-Dong Liu

September 2000 **Journal of Scientific Computing**, Volume 15 Issue 3

Full text available: Publisher Site Additional Information: full citation, abstract, references, citings, index terms

In [6], the Ghost Fluid Method (GFM) was developed to capture the boundary conditions at a contact discontinuity in the inviscid compressible Euler equations. In [11], related techniques were used to develop a boundary condition capturing approach for the variable coefficient Poisson equation on domains with an embedded interface. In this paper, these new numerical techniques are extended to treat multiphase incompressible flow including the effects of viscosity, surface t ...

Keywords: Poisson equation, incompressible flow, interfaces, two-phase flow, water & air mixtures

2 Artificial Boundary Conditions Based on the Difference Potentials Method

Tsynkov S. V.

July 1996 Technical Report, NASA Langley Technical Report Server

Full text available: pdf(605.49 KB) Additional Information: full citation, abstract

When numerically solving an infinite-domain problem, one typically truncates the domain, which necessitates setting the artificial boundary conditions (ABC"s) at the newly formed external boundary. The issue of ABC"s appears most significant in many areas of scientific computing, e.g., in numerical problems that originate from acoustics, electrodynamics, solid mechanics, and fluid dynamics. In particular, in computational fluid dynamics the proper treatment of external boundaries has a profoun ...

3 A Fat Boundary Method for the Poisson Problem in a Domain with Holes

Bertrand Maury

January 2002 **Journal of Scientific Computing**, Volume 16 Issue 3

Full text available: Publisher Site Additional Information: full citation, abstract, references, index terms

We consider the Poisson equation with Dirichlet boundary conditions, in a domain Ω\$\bar{B}$, where $\Omega c\{\Bbb R\}^n$, and B is a collection of smooth open subsets (typically balls). The objective is to split the initial problem into two parts: a problem set in the whole

Terms used **boundary determination** Found **86,798** of **859,66**

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1 **Operational Performance of Sensor Systems Used to Determine Atmospheric Boundary Layer Properties as Part of the NASA Aircraft Vortex Spacing System Project**

Zak J. Allen, Jr William G. Rodgers, Nolf Scott

March 2001 Technical Report, NASA Langley Technical Report Server

Full text available: pdf(710.58 KB) Additional Information: full citation, abstract

There has been a renewed interest in the application of remote sensor technology to operational aviation and airport-related activities such as AVOSS. Radio Acoustic Sounding Systems (RASS), Doppler-acoustic sodars, UHF profilers and lidars have many advantages in measuring wind and temperature profiles in the lower atmospheric boundary layer since they can operate more or less continuously and unattended; however, there are limitations in their operational use at airports. For example, profiler ...

2 **Modeling I: ESOLID---A System for Exact Boundary Evaluation**

John Keyser, Tim Culver, Mark Foskey, Shankar Krishnan, Dinesh Manocha

June 2002 **Proceedings of the seventh ACM symposium on Solid modeling and applications**

Full text available: pdf(391.90 KB) Additional Information: full citation, abstract, references, citings, index terms

We present a system, ESOLID, that performs exact boundary evaluation of low degree curved solids in reasonable amounts of time. ESOLID performs accurate Boolean operations using exact representations and exact computations throughout. The demands of exact computation require a different set of algorithms and efficiency improvements than those found in a traditional inexact floating point based modeler. We describe the system architecture, representations, and issues in implementing the algorithm ...

Keywords: boundary evaluation, exact computation, robustness, system implementation

3 **Determining the Geometry of Boundaries of Objects from Medial Data**

James Damon

June 2005 **International Journal of Computer**